

Claims

1. A valve (10, 110) having a valve chamber (14, 114),
5 having at least one inlet conduit (16, 116) and one outlet
conduit (18, 118) branching off from the valve chamber,
having a movable lifting rod (34, 134), one end of which
opens into an actuator (53), and having at least one valve
member (36, 136, 236) secured to the lifting rod (34, 134),
10 and having at least one valve seat (22, 122) cooperating with
the valve member (36, 136, 236), characterized in that the
valve seat (22, 122) and/or valve member (36, 136, 236) is
elastically deformable, and that the elasticity of the valve
seat (22, 122) and/or valve member (36, 136, 236) is at least
15 so great that the valve member (36, 136, 236) can be thrust
through the valve seat (22, 122) by what is in particular an
external exertion of force and subsequently the valve seat
(36, 136, 236) and the valve member (22, 122) return to their
outset state.

2. The valve (10, 110) of claim 1, characterized in
that the at least one valve seat (22, 122) and the associated
at least one valve member (36, 136, 236) have a chamfer (58,
158 and 56, 156, 256) relative to the axis of the lifting rod
20 (34, 134), which chamfers correspond to one another.

3. The valve (10, 110) of one of claims 1 or 2,
characterized in that the elasticity of the valve seat (22,
122) and/or valve member (36, 136, 236) is produced by means
30 of the elastic properties of the material used and/or by the
specially designed shape of the valve seat (22, 122) and/or
of the valve member (36, 136, 236).

4. The valve (10, 110) of claim 3, characterized in

that recesses (82, 182) are located in the valve seat (22, 122) and/or in the valve member (36, 136, 236), which recesses are capable of receiving elastic material comprising the valve seat (22, 122) and/or the valve member (36, 136, 236) while the valve member (36, 136, 236) is being led through the valve seat (22, 122).

5. The valve (10, 110) of one of the foregoing claims, characterized in that the surfaces (86, 186 and 84, 184) of the valve seat (22, 122) and/or of the valve member (36, 136, 236) are treated with a lubricant, which reduces a sliding friction that occurs while the valve member (36, 136, 236) is being led through the valve seat (22, 122).

6. The valve (10, 110) of one of claims 1-5, characterized in that the at least one valve member (36, 136, 236) of the valve (10, 110) is calked at the lifting rod (34, 134).

7. The valve (10, 110) of one of the foregoing claims, characterized in that a second valve member (38, 128) is mounted on the lifting rod (34, 134), on the side of the at least one valve member (36, 136, 236) opposite the at least one valve seat (22, 122).

8. The valve (10, 110) of claim 7, characterized in that the second valve member (38, 138) and the valve seat (24, 124) belonging to this second valve member (38, 138) are likewise elastically deformable in such a way that both valve members (36, 136 and 38, 138) can be thrust through the valve seats (22, 122 and 24, 124) with in particular external expenditure of force.

9. The valve (10, 110) of one of the foregoing claims,

characterized in that a second outlet conduit (20, 120) with an associated valve seat (24, 124) and valve member (38, 138) branches off from the valve chamber (14, 114) of the valve (10, 110).

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10. The valve (10, 110) of one of claims 1-9, characterized in that the valve has a magnetic actuator (53).

10 11. The valve (10, 110) of one of the foregoing claims, characterized in that the lifting rod (34, 134) is made from plastic.

15 12. The valve (10, 110) of claim 11, characterized in that the valve members (36, 136 and 38, 138) are welded directly into the lifting rod (34, 134).

20 13. The valve (10, 110) of one of claims 1-12, characterized in that the valve chamber (14, 114) is hollowed out integrally.

25 14. The valve (10, 110) of one of the foregoing claims, characterized in that the valve (10, 110) is part of the water-associated control of the cycle of a heating or cooling system.